

Amendments to the Claims

Claims 1-72 (Cancelled)

Claim 73 (Currently amended): A method of producing a vaccine, comprising:
constructing a plasmid vector or DNA fragment by operably linking a DNA sequence encoding
an immunogenic viral antigen to a plant functional promoter capable of directing
expression of said viral antigen in a plant;
transferring the plasmid vector or DNA fragment into a cell of said plant;
regenerating a transgenic plant from said cell;
harvesting a portion of said regenerated transgenic plant, said portion containing said expressed
immunogenic viral antigen, ~~and~~ wherein said expressed antigen stimulates an immune
response; and
purifying said expressed antigen ~~so that most of the plant material is removed.~~

Claim 74 (Currently amended): The method of claim 73 wherein said plant is a tomato
plant.

Claim 75 (Currently amended): The method of claim 73 wherein said plant is a potato
plant.

Claim 76 (Withdrawn): The method of claim 73 wherein the administering of a vaccine
comprises a parenteral introduction of said vaccine into said mammal.

Claim 77 (Withdrawn): The method of claim 73 wherein the administering of a vaccine
comprises a nonparenteral introduction of said vaccine into said mammal.

Claim 78 (Withdrawn) The method of claim 77 wherein said nonparenteral introduction of
said vaccine into said mammal comprises an oral introduction of said vaccine into said mammal.

Claim 79 (New): The method of claim 73 wherein said DNA sequence is a DNA sequence encoding a hepatitis virus immunogen.